$$\mathcal{F}\left(\begin{array}{c}1\\2\\2\end{array}\right), \mathcal{F}\left(\begin{array}{c}1\\2\\1\end{array}\right), \mathcal{W}\left(\begin{array}{c}-3\\1\\1\end{array}\right)$$

$$\frac{1}{2} \cdot \sqrt{2} \cdot \sqrt{2$$

$$A = \begin{pmatrix} 1 & 2 & 0 \\ 1 & -3 & -1 \\ 0 & 2 & 1 \end{pmatrix}$$

$$a = \begin{pmatrix} 120 \\ 13-1 \\ 031 \end{pmatrix} \begin{pmatrix} 100 \\ 010 \\ 001 \end{pmatrix}$$

$$B_{21}^{(1)} = \begin{pmatrix} 1 & 2 & 0 & | & 1 & 0 & 0 \\ 0 & -1 & -1 & | & 1 & 0 & 0 \\ 0 & 2 & 1 & | & 0 & 0 & 1 \end{pmatrix} \qquad B_{21}^{(1)} = \begin{pmatrix} 1 & 2 & 0 & | & 2 \\ 0 & -1 & -1 & | & 6 \\ 0 & 2 & 1 & | & 1 \end{pmatrix}$$

$$\beta_{32}(7) = \begin{pmatrix} 1 & 2 & 0 & | & 1 & 0 & 0 \\ 0 & 1 & 0 & | & 1 & 1 & | \\ 0 & 0 & 1 & | & -7 & -7 & -1 \end{pmatrix}$$

$$\beta_{32}(7) = \begin{pmatrix} 1 & 2 & 0 & | & 7 \\ 0 & 1 & 0 & | & 1 \\ 0 & 0 & 1 & | & -1 \end{pmatrix}$$

$$b = \begin{pmatrix} 1 & 2 & 0 & | & 1 \\ -1 & -3 & -1 & | & -2 \\ 1 & 2 & 0 & | & 2 \end{pmatrix} = \begin{pmatrix} -x_1 + 3x_2 - x_3 & = -2 \\ -x_1 + 2x_2 & = 1 \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 & 0 & | & 2 \\ 0 & -1 & -1 & | & 6 \\ 0 & 2 & 1 & | & 1 \end{pmatrix}$$

$$\frac{-10}{2} = \begin{pmatrix} 1 & 2 & 0 & | & 2 \\ 0 & 1 & 0 & | & 1 \\ 0 & 0 & 1 & | & -1 \end{pmatrix}$$

$$\beta_{12}^{(-2)} : \begin{pmatrix} 100 & -1 & -1 & -1 \\ 10 & 1 & 1 & 1 \\ 001 & -1 & -2 & -1 \end{pmatrix} \qquad \beta_{12}^{(-2)} : \begin{pmatrix} 100 & 10 & 10 \\ 010 & 1 & -1 \\ 000 & 1 & -1 \end{pmatrix} = \chi_{1}$$

$$\chi_{1} : \chi_{2} : \chi_{3} : \chi_{$$

$$B_{32}^{(-2)} = \begin{pmatrix} 1 & 0 - 1 & | & 1 \\ 0 & 1 & -1 & | & 0 \\ 0 & 0 & | & 1 \end{pmatrix} \Rightarrow B_{3}^{(1)} = \begin{pmatrix} 1 & 0 - 1 & | & 1 \\ 0 & 1 & -1 & | & 0 \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0 & | & | & | & | \\ 0 & 0$$

(a) Warens Det (B) = 
$$7.70$$
, must must be bigg lightness

$$\begin{bmatrix} -1 & 10 & 9 & | & 100 \\ 0 & 1 & 13 & | & 010 \\ 0 & 0 & -1 & | & 001 \end{bmatrix} \Rightarrow B_1(-1) \begin{bmatrix} 1 - 10 - 9 & | -100 \\ 0 & 1 & 13 & | & 010 \\ 0 & 0 & -1 & | & 001 \end{bmatrix} \Rightarrow B_1(-1) \begin{bmatrix} 1 - 10 - 9 & | & -100 \\ 0 & 1 & 13 & | & 010 \\ 0 & 0 & -1 & | & 001 \end{bmatrix}$$